

## NOTES

1. FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES, SEE DWG. E-1. FOR INSTALLATION DETAILS, SEE DWGS. E-2 AND E-4. FOR WIRING DIAGRAMS, SEE DWGS. E-3 AND E-4.
2. DISCONNECTION OF EXISTING SPEAKER CIRCUIT AND CONNECTION OF INSTALLED SPEAKER CIRCUIT AT THE TSC AND/OR THE EXISTING SPEAKER SHALL BE MADE AFTER INSTALLED SPEAKER WIRING IS TESTED AND OPERATIONAL. THIS WORK SHALL BE DONE IN THE PRESENCE OF THE ENGINEER.
3. DISCONNECTION AND REMOVAL OF EXISTING TENANT AMPLIFIER AND ASSOCIATED CONDUIT AND WIRING UP TO THIS SPEAKER SHALL BE MADE AFTER INSTALLED SPEAKERS ARE TESTED AND OPERATIONAL. THIS WORK SHALL BE DONE IN THE PRESENCE OF THE ENGINEER.
4. CONTRACTOR SHALL REMOVE EXISTING SPEAKERS ONLY AFTER INSTALLED DEVICES ARE OPERATIONAL.
5. FOR REMOVAL AND PATCHING PLAN DETAILS (P-1, P-2, P-3 & P-4), SEE DWG A-1.
6. ALL REMOVED SPEAKERS SHALL BE RETURNED TO THE ENGINEER.
7. ALIGN CENTER LINES OF SPEAKERS (ON WHICH WORK IS TO BE DONE IN THE CORRIDORS) TO THE CENTER LINE OF THE CORRIDOR. IN CASE OF CONFLICT WITH EXISTING CEILING LIGHTING AND GRILLS, FINAL LOCATION OF SPEAKERS SHALL BE ADJUSTED WITH THE APPROVAL OF THE ENGINEER.
8. SINCE FIRE ALARM CIRCUIT LENGTH IS CRITICAL, ROUTING AND INSTALLATION OF ALL FIRE ALARM CIRCUITS SHALL BE AS SHOWN ON DRAWING.
9. COORDINATE REMOVAL OF ALL SPEAKERS WITH ENGINEER, DISCONNECT AND ABANDON EXISTING SPEAKER CIRCUITS IN CEILING. TAPE ENDS OF DISCONNECTED CONDUITS AND TAG AS ABANDONED. THIS WORK SHALL BE DONE IN THE PRESENCE OF THE ENGINEER.

### SPEAKER CIRCUIT/LOADING TABLE

SPEAKER TAP / dB SETTING	Watts	1/8	1/4	1/2	1	2	4	TOTAL POWER (Watts)	CIRCUIT LENGTH (ft.)
	dB	75	78	81	84	87	90		
QUANTITY OF SPEAKERS PER CIRCUIT	SPK-C	4	3	9	1			6.750	950
	SPK-D	1	2	11	0			6.125	726
	SPK-E	0	1	5	1			3.750	453
	SPK-F	0	1	7	1			4.750	525
	SPK-G	10	4	12	1			9.250	123
	SPK-H	4	5	13	3			11.250	133
GRAND TOTAL								41.875	5222

No.	Date	Revision	Approve
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**ENGINEERING DEPARTMENT**

WORLD
TRADE
CENTER

<b>ELECTRICAL</b>			

Title  
**FIRE ALARM SYSTEM  
DEVICE UPGRADE  
PHASE III  
5 WTC 3rd,4th,5th & 6th FLOORS**

5th FLOOR  
SPEAKER LAYOUT  
INSTALLATION AND  
REMOVAL  
WEST PART PLAN

This drawing subject to conditions in Contract. All inventions, ideas, designs and methods herein are reserved to Port Authority and may not be used without its written consent.

<b>FELDSTEIN</b>	<b>APOSTLE</b>	<b>A.S.</b>
Designed by	Drawn by	Checked by

NOVEMBER 26, 1999  
Date

WTC-861.573 E-05-2W  
Contract Number Drawing Number

I HEREBY CERTIFY THAT THIS IS A TRUE AND CORRECT COPY OF ONE OF THE CONTRACT DRAWINGS CONSTITUTING A PART OF CONTRACT NO. WTC-Bldg. 573 IN THE FORM IN WHICH SAID DRAWINGS EXISTED AT THE TIME THE SAID CONTRACT WAS EXECUTED BY THE PARTIES.

DATE 2/1/00 PAQ  
CONTRACT ENGR/ARC

DATE 2/18/00 [Signature]  
ENGINEERING PROGRAM MG

CONSTRUCTION SITE

**KEY PLAN**  
NTS

0 12 24  
SCALE IN FEET